

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number  
WO 2004/006413 A1

(51) International Patent Classification<sup>7</sup>: H02K 1/14, 33/16

89201-810 JOINVILLE - SC (BR). DOKONAL, Luiz, Von [BR/BR]; Rua Visconde de Mauá, 241, 89204-500 JOINVILLE - SC (BR).

(21) International Application Number:

PCT/BR2003/000085

(74) Agents: ARNAUD, Antonio, M. P et al.; Rua José Bonifácio, 93 - 9th floor, 01003-901 São Paulo - SP (BR).

(22) International Filing Date: 1 July 2003 (01.07.2003)

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

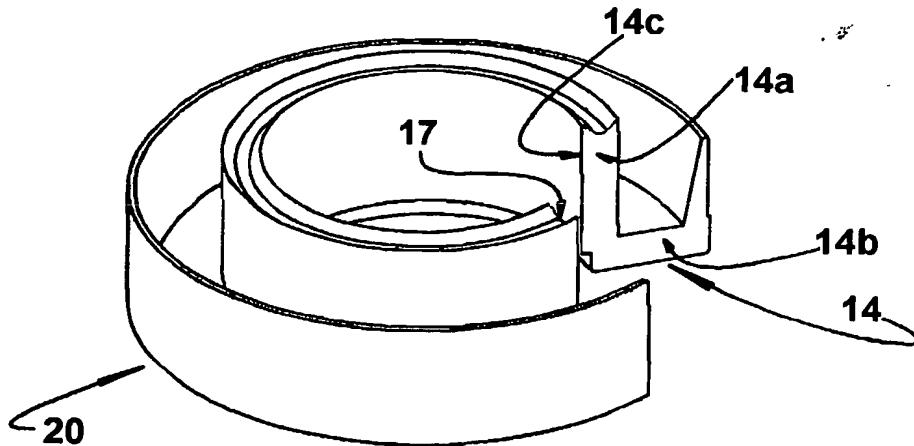
Published:

(30) Priority Data:  
PI 0203507-3 3 July 2002 (03.07.2002) BR

— with international search report

[Continued on next page]

(54) Title: PROCESS FOR FORMING THE STATOR OF A LINEAR MOTOR, ANNULAR STACK OF LAMINATION ELEMENTS AND STATOR FOR AN ELECTRIC MOTOR



WO 2004/006413 A1

(57) Abstract: A process for forming the stator of a linear electric motor, an annular stack of lamination elements, and a stator for an electric motor, said stator comprising an annular stack of laminations elements (5) within which is mounted a tubular coil (6), said process comprising the steps of: a- providing lamination elements (10), each being defined by two lamination portions (13, 14) to be affixed to each other to complete the respective lamination element (10); b- forming two mutually complementary annular assemblies (20, 30), with the lamination portions (13, 14) of each annular assembly (20, 30) being seated side by side in relation to each other; and c- seating in the interior of each of said annular assemblies (20, 30) a respective adjacent end portion of the tubular coil (6), affixing the two annular assemblies (20, 30) to each other, to complete the shape of the annular stack of lamination elements (5).



*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*